

THE RARA RAG

Newsletter of The Rochester Amateur Radio Association, Inc.
Founded in 1931

MARCH 2018
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INSIDE THIS ISSUE

MONTHLY PROGRAM	1
BOARDZ BUZZ	2
CALENDAR OF EVENTS	2
BSA KLONDIKE	3
SURVEYS	3
CHANGES TO PUBLIC SERVICE	3
WINTERFEST	4
RA RA ACADEMY	5
LINCON WEB	5
MULTIMODE DIGITAL HOTSPOT	6
DONATIONS	7
RAGS OF THE PAST	8
VE TEAM	9
RA RA CALENDAR	10
NEWS AREA FROM CLUBS	11
AMATEUR'S CODE	13
RA RA MARKETPLACE	14
RA RA OFFICERS	15
AREA CLUB CONTACTS	16

How to Succeed at DX with a Modest Station



ROBERT KARZ, K20ID

DXing is defined as a long distance or “DX” contact. For most of us, however, it is simply a QSO with a ham from another country. DXing is a fun and rewarding part of our hobby that most of us have at least dabbled with from time to time. Serious DXers aspire to work every country on every band. You might think that DXing at this level requires state of the art expensive equipment, but you would be wrong. This month Bob Karz (K2OID) will discuss how to achieve DXCC Honor Roll status with a relatively modest station.



DXCC is an acronym for the ARRL's DX Century Club. ARRL writes the rules and keep score for the DXing community by tracking the number of confirmed countries each participant has worked. Membership in DXCC requires confirmed contacts from at least 100 countries. A country is defined by a complicated set of rules approved by the ARRL Board of Directors. By the DXCC count there are currently 340 countries. Any DXer with 331 or more countries confirmed is listed on the Honor Roll published annually by the ARRL. By DXCC logic, Alaska is a country as are Hawaii and Puerto Rico. The United Nations in New York is a country as is a building in Rome known as the Sovereign Military Order of Malta. Several uninhabited islands in the Antarctic are each countries as is Scarborough Reef, a collection of rocks sea. You get the idea.

The presentation will include building a competitive station without breaking the bank, using DX clusters, non-pile up opportunities to snag a rare one, DX pile up etiquette, pile up strategies to use when you're not a proverbial "big gun", using propagation to your advantage, and getting your QSOs confirmed.

Bob has been licensed since 1958. He holds an Extra class license. He has been chasing DX since the early 1970's and has 344 countries confirmed (including 6 deleted entities). He is a member of the XRX Radio Club and a longtime member of RARA.



Please join us on Wednesday, March 7, 2018, 7PM at the Boy Scouts Headquarters at 2320 Brighton Henrietta Townline Road, Rochester, New York 14623.

RARA



BOARDZ BUZZ

MIKE MOORE

Just think about the most successful people in the world. Those who consistently succeed are those who are best at learning new skills. Successful people make the commitment to dedicate their spare time in the pursuit of learning (instead of vegging out in front of the television.) And they stick to their promise of learning. This pursuit has been called as “Lifelong Learning”. The hobby of Amateur Radio gives each of us the perfect opportunity to learn new things. When I think back on my 50 years as a ham, I find that the number and diversity of new things that were introduced to us as hams to be astounding! Of the 5 reasons given for the existence of Amateur Radio, 3 of the reasons are dedicated to Lifelong Learning.

1. Continuation and extension of the amateur's proven ability to contribute to the advancement of the radio art.
2. Encouragement and improvement of the amateur service through rules which provide for advancing skills in both the communication and technical phases of the art.
3. Expansion of the existing reservoir within the amateur radio service of trained operators, technicians, and electronics experts.

The other 2 purposes for ham radio have to do with emergency communications and fostering international goodwill.

So how do we go about learning new things? Obvious answers are through courses such as license classes and books produced by the ARRL and other organizations. One hugely popular method of learning new things is the internet. I went to YouTube and searched on the term “ham radio” and found 340,000 videos were listed. You can find a YouTube video which covers just about any new or historical ham radio topic that you can think of. Other sources of information are the various internet groups such as groups.yahoo.com, groups.io, groups.google.com, and increasingly, facebook.com. Learning things in these groups has the advantage that it can be two way. By joining a group you can not only read what others have done. You can also ask questions! With all that the internet has to offer, it has never been easier to make a commitment to lifetime learning.

Another learning advantage that all of us have is our association with RARA. Our club is committed to helping us advance as hams. In fact, the core mission of RARA is to “promote scientific education and knowledge of radio engineering and communication skills by facilitating the exchange of information, improving individual operating efficiency and strengthening the welfare of amateur radio in the community.” That sentence is lifted directly from the RARA mission statement found on our website! The following list contains some of the advantages in learning that our RARA membership offers.

1. At the monthly meetings there are speakers who present new and interesting ham radio topics.

2. RARA license classes teach the theory of radio and requirements which lead to initial and upgraded licenses.
3. The RARA education program works in the community to promote interest in our hobby and conducts the RARA Academy.
4. Our Elmer program is designed to offer help to the newcomer.

RARA can be a key component in our own pursuit of lifetime learning. Our club has a lot to offer in the experience of its members, interest in ham radio, and resources that we bring to improve the hobby. I know that all of us would benefit from considering how we can become lifetime learners and help others reach that goal through increased involvement with RARA. For more information about the topic of lifetime learning take a look at the article at the link <https://www.sciencedirect.com/science/article/pii/S1877042811030023>

CALENDAR OF EVENTS

WEDNESDAY MARCH 7, 2018- RARA General Meeting
7:00 PM at BSA Headquarters
2320 Brighton Henrietta Town Line Rd

THURSDAY MARCH 8, 2018- RARA Board of Directors
5:45 PM at Novaworks, 333 Metro Park, F-500

SATURDAY MARCH 10, 2018—RARA Academy, SDR
10:00 AM at BSA Headquarters
2320 Brighton Henrietta Town Line Rd

SATURDAY MARCH 17, 2018—VE Testing
9:45 AM at RIT, Gleason School of Engineering, Rm 9-3139

SATURDAY APRIL 7, 2018—Power Supply and Battery Technology
10:00 AM at BSA Headquarters
2320 Brighton Henrietta Town Line Rd

SATURDAY MAY 5, 2018—RARA Academy, Dual Band Antenna Build
10:00 AM at BSA Headquarters
2320 Brighton Henrietta Town Line Rd

SATURDAY JULY 14, 2018– PICNIC
Stewart Lodge—Mendon Ponds Park

FRIDAY SEPTEMBER 21, 2018– BANQUET
Burgundy Basin Inn

BSA KLONDIKE

Mark Pedersen, KC2UES

Mendon, NY. The Bay Waters District Winter Klondike took place on January 27, 2018, at Mendon Ponds Park, and HAM radio was present. Tim Brown and Mike Moore got the antenna up into the trees for 20 and 40 meters. Mark Pedersen, Mike Maynard, his sons Wes and Cal, both licensed operators, as well as Mike Moore, and Tim Brown, operated the station for the Klondike. Patrols visited the station and answered questions from the radio merit badge requirements to earn points. We also publicized the upcoming April 28th class to encourage Scouts to attend and earn the Radio Merit Badge.

The two Scout HAMS drove traffic into the station and acted as ambassadors for HAM radio. Mike Moore made contacts with Italy and Belgium, and other operators contacted Florida, and Ohio. Wes also made a contact and talked with another ham. Tim used the borrowed Elecraft K3 to make CW contacts with Texas.

Mark Pedersen provided the staff with FRS radios, which helped them to make the Klondike run more smoothly.

Everyone enjoyed operating at the park and showing off HAM radio to the Scouts. We plan to participate at next year's Klondike.

SURVEYS

YES

WE WANT YOUR INPUT

Please click the links below for

[Learning To Solder Survey](#)

[Build It Project Survey](#)

CHANGES TO PUBLIC SERVICE EVENTS

Mike Moore, KC2NM, Public Service Coordinator

We have learned of two changes to this year's public service event schedule. The Walnut Hill Driving Competition will not be held this year. This event was sponsored by the Pittsford Carriage Association and was held at Walnut Hill Farm in Pittsford, the site of last years' hamfest. The Finger Lakes Challenge bike ride will also not be held this year. The ham radio operations were lead by the SIARC group but many RARA members participated in the communications team for that event. The Finger Lakes Challenge was a fundraiser of the MS Society and its ROC the Ride event will be held as planned on August 25th in Genesee Valley Park.

Please take a minute to visit our Public Service webpage and sign up for a few of the great events coming in 2018. Feel free to bring along a friend or spouse even if they are not a HAM. This is also a great opportunity for new HAMS to sharpen your radio skills. All you need is a mobile and/or portable VHF and/or UHF radio and a desire to get out of the shack and really do something worthwhile to help yourself and others.

http://rochesterham.org/public_service.htm



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Frank Schramm (WB2PYD)
Realtor
Licensed Real Estate Salesperson
Certified Financing Specialist
FSchramm@KW.com
585.362.8564

Keller Williams Realty Greater Rochester
2000 Winton Rd South Building 1-201
Rochester, NY 14618



WINTERFEST



Crockpot Stars
1st Place—N2JAC—Pizza Casserole

2nd Place—KA2CGB—
Buffalo Chicken Dip

3rd Place—NV2K—
Pulled Pork Red Sauce



2018 RARA ACADEMY

Tim Brown, WB2PAY, Education Coordinator

Feb 3rd

Scott Theis, W2LW presented the Arduino Academy workshop. Eleven members participated in the session.

Slides from the workshop are at

[https://www.rochesterham.org/raraacademy/2018-02-03 Intro to Arduino.pdf](https://www.rochesterham.org/raraacademy/2018-02-03%20Intro%20to%20Arduino.pdf)

Upcoming Academy Workshops:

March 10th will be a follow-up to the January RARA meeting presentation of Software Defined Radio. If you missed the January presentation or would like to review it, you will find it at this location: [SDR](#)

The March presentation will delve into more detail on many topics relating to SDR but respectfully avoid heavy theoretical discussions. The session will culminate with some hands-on operation of modern SDR radios – hardware and software.

Agenda:

- A Summary of the January Presentation
- Super Heterodyne to Software Defined
- Direct Sampling
- Direct Conversion
- SDR Software
 - Power SDR
 - HDSDR
 - Quisk
- Hands On

Our presenter will be Forest Shick, WA2MZG. The presentation will take place at the BSA Headquarters at 2320 Brighton Henrietta Town Line Rd, March 10, 2018, starting at 10AM.

April 7th

The January Academy which was postponed due to bad weather will be held on April 7th at the BSA Headquarters at 10am.

The topics for this workshop will include:

- Battery and Power Supply Technologies used with communications equipment
- Safe handling and charging of batteries
- Safety Precautions when working with High Voltage power sources
- Various battery technologies and power sources will be on display

May 5th

This Academy workshop will be a hands on session.

- We will build a dual band 20/15M HF dipole antenna.
- The cost of this session is \$25.
- Class size is limited to 12 participants.
- Register for the class by emailing education@rochesterham.org.

This session will be held at the BSA Headquarters from 10am to noon.



Lincon Web says “Click This”

CLUBS

[Mohave Amateur Radio Club](#)
[The American Legion ARC](#)
[SouthTowns Amateur Radio Society](#)
[Rochester VHF Group](#)

STORES

[North Country Radio](#)
[4 State QRP Group](#)
[Electronics USA](#)
[Dan's Small Parts and Kits](#)

SOFTWARE

[Afreet Software](#)

SDR

[Basics of IQ Signals](#)

NEW 70 CM MULTIMODE DIGITAL HOTSPOT

Mike Moore, KC2NM

I recently assembled a new hotspot which allows operation on the 70 cm band with 4 of the common digital modes. These are: DSTAR, DMR, YSF (Fusion), and P25. MMDVM stands for multi mode digital voice modem. The modem, when paired with a Raspberry Pi and software, makes up what is called the Zumspot. The device is named after its developer Jim, K16ZUM. The Zumspot modem board contains a radio chip and antenna with an interface to the Raspberry Pi GPIO connector. The transmitter operates at very low power. With the Pi-STAR linux image which is stored on a micro usb memory, this package allows connection to repeaters, reflectors, and other hotspots via the internet. While the standard Raspberry Pi may be used, I have mine built around a Pi-Zero-W. This makes for a very compact package and I can use it in my car, tethered to my cell phone. I only have radios for DSTAR and DMR but I believe that operation is similar using the other modes. The vocoder configuration as well as the connection methods are unique to each mode so direct interoperability is not possible between modes. In other words, you can't talk to a DMR user directly from a DSTAR radio. There is a new type of reflector that I have yet to try which claims to accept a connection from each of the modes and will transcode the vocoder stream to pass audio from one mode to the next.

I had a difficult time obtaining a Zumspot board because of availability issues resulting from its popularity. The supply chain for the board was redone over Christmas and the boards as well as a kit are available from Ham Radio Outlet. The modem board comes with the rubber duckie antenna for \$99 and the kit adds the Raspberry Pi zero, GPIO header, and programmed memory card for \$119 for the kit. I bought a case from Amazon for \$7 to complete the package. The software is configured via a browser connection to the Pi. For more information about this package see the following video <https://www.youtube.com/watch?v=euUEdID07oY&t=13s>. Some Pictures from my assembly are shown following.

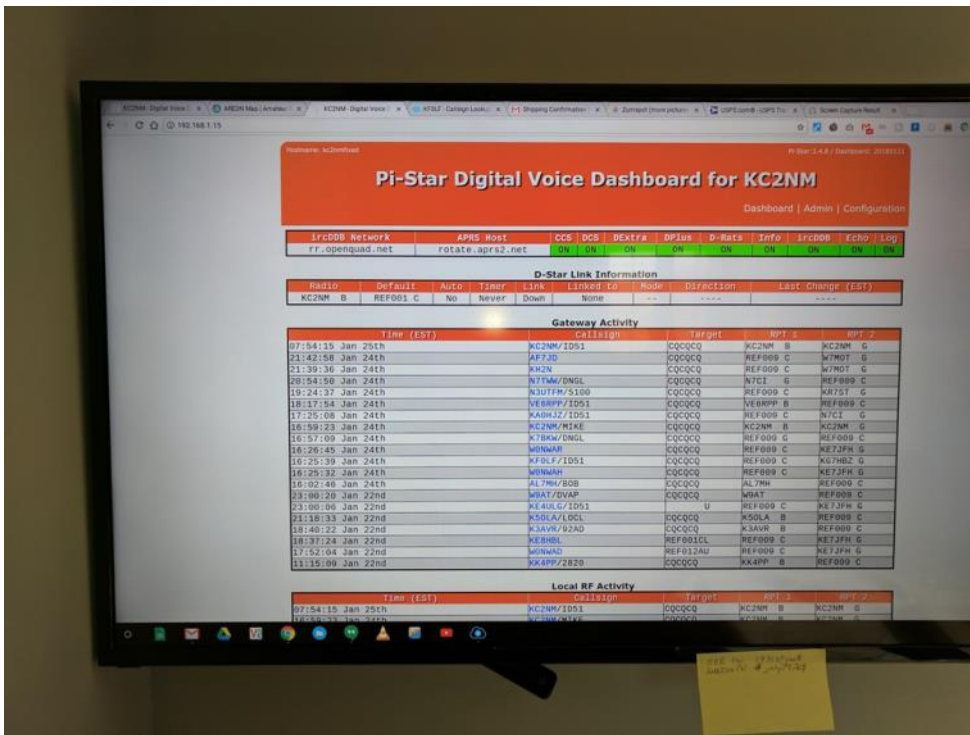


Raspberry Pi Zero W in the case with ready to attach modem and antenna

DONATIONS FOR FEBRUARY 2018

I would like to thank all the generous friends of RARA that donated the following items this month.

- National Panasonic RF-5000
 - Ten Tec Omni V Model 562 Transceiver, Model 961 Power Supply and Speaker, Shure Model 444 Microphone, Straight Key and Manuals
 - Astron RS-20A Power Supply
 - Calrad SWR Bridge
 - Drake DL300 Dummy Load
 - 3 Position Coax Switch
 - In Line Instruments Inc Type 105C Coupler
 - Gold Line Watt Meter 10 / 100 / 1000W, 8 – 30 MHz
 - Superior Instruments Co VTVM
 - Realistic HTX-202 with Batteries and Microphone
 - MFJ-1270 TNC2 and Manual
 - Kenwood TR2200A with Microphone, Manual and Antenna
 - VHF Engineering VHF Amplifier Model PA250
 - W2AU Balun
 - Miscellaneous components and cables, approximately 50 lbs
- Books
- 1975 Callbook
 - Low Band DXing
 - Electronic Communications
 - The Complete DXer
 - ARRL Antenna Book
 - Radio Amateur VHF Manual
 - Antenna Construction Handbook
 - Antenna Handbook
 - Band-Aides



Browser Window for Configuration (Dashboard mode)



Hotspot running in the kitchen

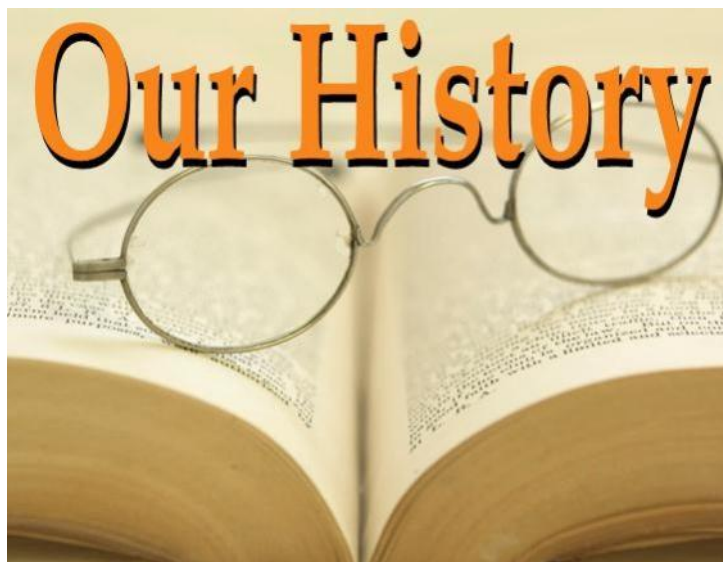
RAGS OF THE PAST

ED GABLE, K2MP, RARA HISTORIAN



40 Years Ago, March 1978

Len Gessin, WA2ZNC, RARA Vice President and Program Chairman, announced this meeting would be a Q and A session run by an on-stage panel of experts answering questions from the floor. Most of the front page of this issue, written by an unknown author, detailed the events of the upcoming three day 1978 Rochester Hamfest in May. A highlight at this time, prior to VE exams, was the having the FCC come to the Rochester Hamfest to administer Amateur Radio exams. Ten thousand hamfest brochures would soon be in the mail where the advanced ticket price was told to be \$3.50 and an outdoor flea market spot was an additional dollar. The RARA Campers, a not very official group of RARA members who were also camping enthusiasts, reported they had three camp outs planned from May through September. Wagonmasters for these events were Harvey Samuels WA2LUE, Bill March WA2CER and Don Drennon W2EBF. A rare appearance in the Rag was original poetry by our own Dwight Hill, K2KWK. This time Dwight penned a delightful item relating the start of a new sun spot cycle titled "To Cycle 21." It's too long to repeat here but starts: "Hooray, hooray-March has begun, look, they tell us – that's the sun..." No Silent Keys were reported in this issue. From the Want Ads you found Gene McPherson looking to buy a used GLB or VHF Group synthesizer. JR's amateur supply store at 3327 Lake Avenue continued a commercial advertiser offering Kenwood, Drake, Yaesu and other lines of amateur equipment.



20 Years Ago, March 1998

Vice President and Program Chairman Rick Wells, W2RW, announced the next meeting would bring Frank DiStefano, WB2DZF, as the guest speaker. Frank would depart from the technical side often heard from our programs and entertain the folks with an accounting of his five month trip to Alaska while operating mobile /KL7. I remember Frank's talk and was impressed with the fact he took his rugged truck/camper, with 8 ply tires, over 14,000 miles, many of those off-road and getting three miles to the gallon. Now we know the real reason for the building of the Alaskan Pipeline... to supply Frank's fuel needs! At this time RARA meetings were at the Henrietta Fire Hall. Lloyd Caves, WB2EFU (N2PU), wrote continuing Part III of his monthly articles detailing the 1998 Rochester Hamfest. In this issue he told of added programs including Dan Miller, K3UFG, from ARRL HQ with a program for the new ham. Not just for youngsters, but any new ham with entry level information centered

on the fact there is more than 2 meter FM and repeaters inside your new license. Lloyd also told of a program covering GPS and APRS by Keith Sproul, WU2Z. It was announced then the formation of a universal CEPT licensing program that allowed U.S. Amateurs, when travelling to foreign countries, to operate with their license with no need to apply for that country's ham license. Members were told that they could bring their RARA Directory to the next meeting for free spiral binding. There were no silent keys reported this month. From the Want Ads you could buy a Viking Thunderbolt amplifier from Frank Frederickson for four hundred dollars. Glenwood Sales of Hague Street remained a long term commercial advertiser.

VE TEAM

The next **ALWAYS FREE** testing session:

Saturday March 17th
Rochester Institute of Technology
Kate Gleason College of Engineering
Gleason School of Engineering
Room 3139, Bldg. 9
Use "J" parking lot
Registration at 9:45AM
Testing at 10:00AM

You do not have to preregister.

To avoid giving your SSN go to:

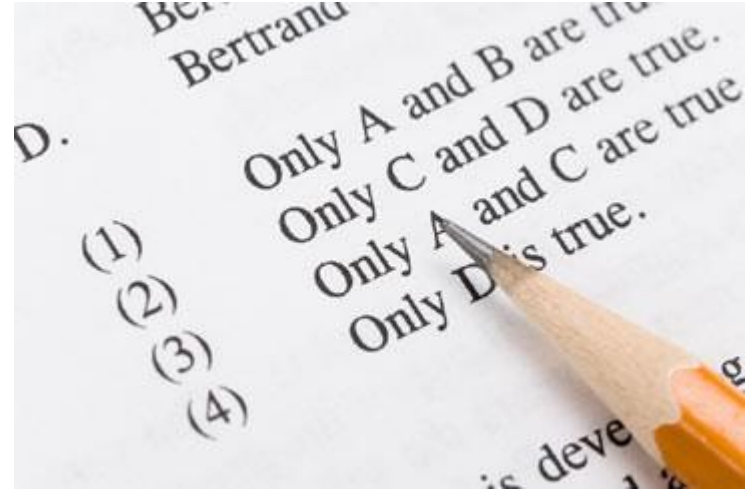
<http://wireless.fcc.gov/uls/index.htm?job=home>

Register and bring the resultant FRN.

For more info:

<https://www.laurelvec.com/?team=RARA>

Don Kiser - AC2EV
RARA Board member
VE Team Leader
585-613-1035



Christopher Courtney	KD2PEC	T	Andrew Pope	KI7UJY	T
Andrew Brownlee	KM6QMW	T	George She	KD2PEB	T
Michael McCoy	KD2PED	T	Catherine Dykes	KD2PEE	T
Douglas Locke	KD2PEF	T			

New licensees names are in BOLD

RaRa CALENDAR

Tim Barrett, K9VB

March 2018						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
				1 ARES Net 146.61 MHz 7pm NCC Sprint QRP Fox Hunt	2	3 AWA Museum Open 1pm - 5pm ARRL Inter. DX Contest, SSB Novice Rig Roundup Wake-Up! QRP Sprint Ukraine RTTY Contest
4 ARRL Inter. DX Contest, SSB Novice Rig Roundup Wake-Up! QRP Sprint SARL Hamnet 40m Simulated Emerg Contest Ukraine RTTY Championship UBA Spring CW Contest NSARA Contest	5 Novice Rig Roundup	6 Novice Rig Roundup AGCW YL-CW Party QRP Fox Hunt PhoneFray	7 RaRa Monthly Mtg 7:00pm, BSA HQ, Brighton Henrietta TLR ROC City Net 8:00pm 3.826 MHz Novice Rig Roundup AWA John Rollins Memorial DX Contest	8 RaRa BoD Meeting 5:45pm Nova-works 333 Metro Park Rochester 14623 ARES Net 146.61 MHz 7pm QRP Fox Hunt Novice Rig Roundup AWA John Rollins Memorial DX Contest NCC Sprint	9 Novice Rig Roundup Ukraine RTTY Championship	10 RaRa Academy: SDR 10:00am, BSA HQ, Brighton Henrietta TLR AWA Museum Open 1pm - 5pm Novice Rig Roundup AWA John Rollins DX Contest AGCW QRP Contest EA PSK63 Contest ID, OK QSO Parties RSGB Commonwealth Contest South America 10 Meter Contest Stew Perry Top Band Contest
11 AWA John Rollins DX Contest AGCW QRP Contest EA PSK63 Contest Idaho QSO Party North American Sprint, RTTY Wisconsin QSO Party WAB 3.5MHz	12	13 QRP Fox Hunt PhoneFray	14 ROC City Net 8:00pm 3.826 MHz	15 ARES Net 146.61 MHz 7pm NCC Sprin QRP Fox Hunt t	16	17 AWA Museum Open 1pm - 5pm BARTG HF RTTY Contest Russian DX Contest VA LA QSO Parties Feld Hell Sprint
18 BARTG HF RTTY Contest Russian DX Contest CA LA QSO Parties	19 Bucharest Contest	20 RDXA 7:30pm SIARC 7:30pm NCC Sprint QRP Fox Hunt PhoneFray	21 ROC City Net 8:00pm 3.826 MHz	22 Monroe Cty ARES 6pm, Red Cross Center, Prince St NCC Sprint QRP Fox Hunt	23	24 AWA Museum Open 1pm - 5pm CQ WW WPX Contest, SSB FOC QSO Party
25 CQ WW WPX Contest, SSB UBA Spring Contest, 6M	26	27 NCC Sprint QRP Fox Hunt	28 ROC City Net 8:00pm 3.826 MHz	29 ARES Net 146.61 MHz 7pm NCC Sprint QRP Fox Hunt	30	31 AWA Museum Open 1pm - 5pm FOC QSO Party Russian WW MultiMode Contest UK/EI DX Contest, CW

NEWS FROM AREA CLUBS

MONROE COUNTY ARES / RACES News

The Monroe County Amateur Radio Emergency Service, Inc. holds its meetings on the fourth Thursday of each month. Anyone interested, members and non-members, are welcome to attend.



The next ARES Meeting will be held on: **Thursday, March 22, 2018, at 6:00 PM.**

Meetings are held at the **Greater Rochester Chapter of the American Red Cross HQ, 50 Prince Street, Rochester, NY 14607.** (Located behind the Rochester Auditorium Theatre, 885 Main St. E.)

ARES NET:

Monroe County ARES/RACES meets on the air every Thursday of the month at 6:00 pm, on the 146.61 MHz (-) 110.9 Hz PL repeater. The only exception to that are nights when we hold our regular meeting, generally on the 4th Thursday of the month.

WEB: www.monroecountyemcomm.org

Severe Weather Alerts:

Winter brings severe weather in the form of heavy snow and strong winds. If you experience severe weather, especially when accompanied by damage to property in your area, listen to your local ARES/RACES repeaters for information. While official ARES/RACES activation could be a possibility, it is more important that we open a spontaneous net simply to share information about weather conditions in your immediate area. Don't wait for someone else to do it. Pick up the microphone and start a net. Have each check-in station give you a situational awareness report and emergency power report. If you don't have a copy of the directed net protocol, you can find one at the WEB address listed above. (Activities/ARES Net/ Net Script/ Downloads)

NBEMS:

Want to learn about Narrow Band Emergency Messaging System (NBEMS)? It's the latest and easiest way to "Go Digital!" Bring your laptop computer and 2-M handheld transceiver. We will conduct an NBEMS clinic after every meeting through June 2018.

ROCHESTER DX ASSOCIATION, RDXA

RDXA meets the 3rd Tuesday of every month (September through May) except for December, which is the Annual Holiday Banquet. Meetings are open to everyone and all are encouraged to attend.



Our March program will be presented by RDXA member Ken Boasi, N2ZN on recent DXpeditions and contest operation that he (and several other RDXA members) have undertaken.

With contest scores approaching (and surpassing) much larger operations, Ken will take you inside these "humble" efforts with descriptions and photographs.

Get an inside peek on "what it takes" to compete w/ the "big boys", questions encouraged and always welcomed!

Meetings are held at the Monroe County EOC 1190 Scottsville Rd. (second floor), Rochester, NY 14624 at 7:30PM.

ROCHESTER RADIO REPEATER ASSOCIATION

The Rochester Radio Repeater Association, RRRA invites you to attend its March 16, 2018 meeting. Meetings are held on the 3rd Friday of the month in the Pittsford Town Hall Basement starting at 7:30 PM.

March is a special month because it's RRRA's Annual Auction. Set up and socialization will start at 7:00 pm. As usual, 10% of the sold value is paid to the Club by the seller. You do not need to be a member to attend but we could use your support by becoming a member.

The RRRA officers are Bob Shewell, N2HJD President, Bob ODeil, N2BZX Vice President, ED Wilkonski, KC2WM Secretary, and Bob Smith, NS2B-Treasurer / Membership Chairman. RRRA also accepts donations to the club. If you are not currently a member and want to support RRRA, you can join at our monthly meeting or on our web site www.k2rra.org

ROCHESTER VHF GROUP

The Rochester VHF Group sponsors an informal On-Air Net every Monday at 2100 local time on 144.260 MHz USB and a 6 Meter Net every Thursday at 2100 local on 50.200 MHz USB.

More club information can be found by visiting www.rvhfg.org or just calling in any Monday or Thursday night. All are welcome to check in to these nets.

XRX AMATEUR RADIO CLUB

The next meeting of the XRX Amateur Radio Club will be at 6PM on Thursday March 8, at the Webster Recreation Center. Check our website at <http://xarc.us> for the latest info.

SQUAW ISLAND AMATEUR RADIO CLUB, SIARC

The Squaw Island Amateur Radio Club (SIARC) meets every second Wednesday of the month at 7:30PM at the Ontario County Safety Training Facility, 2914 County Road 48, Town of Hopewell. We have License Exam Testing every other month which begins at 6:30PM. The next meeting will be on Wednesday, March 14th. There will be License Exam Testing starting at 6:30PM. 73's Steve Benton VP SIARC WB2VMR

AMATEUR RADIO ASSOCIATION OF THE SOUTHERN TIER, ARAST

ARAST meets the third Thursday of every month at the Town & Country Fire house in Horseheads. C-CARES meets the first Tuesday of the month except February. C-CARES covers the entire area in Chemung, Schuyler and Steuben Counties and everyone is welcome.

Don't forget to mark your calendars for next year's hamfest September 29, 2018 located at the Chemung County Fairgrounds in Horseheads, NY. Tickets will be available from any board member and online at our website as we get closer to the venue date. Also need Communicators for the Wine Glass Marathon for 2018. The date has been set for the Sunday following the Hamfest (September 30, 2018). If you can help out, contact the Emergency Coordinator at emergencycoordinator@stny.rr.com as soon as you can. EMO needs to be notified who's out there.

Our website is almost complete undergoing construction. I understand that until the re-write is complete, it will still be usable. Look for the transition to take place after the Wineglass Marathon. So go ahead and check out our website at www.arast.org.

Don't forget to check out our repeaters when you come into the area: The N3AQ 147.36(+); and W2ZJ 146.70(-) are the principal ARAST repeaters on 2 meters. A full list of all the repeaters that can be heard in Chemung County New York and neighboring areas of Pennsylvania can be found at http://www.arast.info/arast_website/public/repeaters.php

COMMUNITY AMATEUR RADIO CLUB, CARC

If you are interested in being a part of this forward thinking and active club, visit us at a meeting or join us on one of our weekly nets. We meet at the Hoag Library (134 S. Main St. Albion, NY) on the first Saturday of each month at 7pm. Each meeting has a brief training/refreshers period with upcoming topics including: net protocol, repeater set-up/maintenance, and digital signaling. The club holds a net every Sunday evening at 8pm (winter) and 9pm (summer) - 0100

UTC Monday - on 147.585 simplex, and we host the Thursday Night Social Net, Thursday at 8:30pm on 147.285+. We'd love to hear you check-in! Take a look at the club website for more info: www.k2srv.org

DIGITAL COMMUNICATIONS ASSOCIATION OF PERINTON, DCAP

DCAP members continue to experiment with leading edge digital communications modes. We were formed in 1994 to foster the development of local and regional packet radio networks using AX25 and TCP/IP. Today we have members using the club sponsored DSTAR repeater (KB2VZS on 444.8MHz), several personal and public [DSTAR hotspots](#) (using the dvprtr board), Yaesu fusion systems on non-club repeaters and DMR. The last mode is being enjoyed locally through a [DV-Mega-Raspberry Pi](#) combination. DCAP meets for breakfast at 7am nearly every Saturday morning at [Rikki's Family Restaurant](#) in Fairport and everyone is welcome to join us. Talk in is on the KB2VZS analog repeater on 146.715MHz with a PL of 110.9 Hz.

WESTSIDE AMATEUR RADIO CLUB

The mission of the Westside Amateur Radio Club is to provide emergency communications services to the community, to assist other civic organizations, to promote the technical craft of amateur radio through class training and testing, to mentor new members, and enhance fellowship among radio amateurs.

The Westside Amateur Radio Club meets on the second Wednesday of the month at the Chili Public Library. The Library is located at 3333 Chili Ave, Rochester, NY 14624.

The talk in repeater for all meetings is the K2RWC Repeater 146.700MHz - 110.9

Website: <http://WestsideAmateurRadio.club>

INTERLOCK ROCHESTER - K2HAX - ROCHESTER'S HACKERSPACE

Interlock Rochester is open most every Tuesday night at 7pm. We're in the Hungerford Building (1115 East Main Street, Rochester NY), just north of Village Gate. Come to Door #7 (to the left of Comics Etc) and buzz Suite 200. Want to know more? Visit our website at <http://www.interlockroc.org/>, contact us at info@interlockroc.org, or find us in #interlock on Freenode IRC.

GENESEE VALLEY AMATEUR RADIO ASSOCIATION

2018 Meeting and Testing Schedule

Testing Schedule:

Saturday, February 17, 2018 1:00 PM - 2:00 PM

Saturday, May 17, 2018 1:00 PM - 2:00 PM

Saturday, April 21, 2018 1:00 PM - 2:00 PM

Saturday, May 19, 2018 1:00 PM - 2:00 PM

*** Saturday, June 23, 2018 1:00 PM - 2:00 PM (Field Location, please call for location)

Saturday, September 15, 2018 1:00 PM - 2:00 PM

Saturday, October 20, 2018 1:00 PM - 2:00 PM

Meetings to follow after testing.

Location -

Brick Presbyterian Church

6 Church St.

Perry, NY 14530

*** PLEASE note that the Field day location is To Be Determined

Email n3dsp@lafireline.net for details.

ROCHESTER MAKERSPACE

The Rochester Makerspace is located at the rear of 850 St. Paul Street in almost 4,000 square feet of workspace. We are a volunteer-run 501c(3) nonprofit organization and our mission is to encourage learning, creativity and collaboration. We do that by providing low-cost and free access to sophisticated tools, offering a wide variety of classes, and by providing opportunities for "makers," artists and crafts persons of all kinds to meet and learn from each other.

Drop in to explore, learn and make at our weekly open house:

Every Thursday Night, 6 to 10 PM – Weekly Community Night & Open House

Every Saturday, 11 AM to 3 PM – Weekly Community & Open House

Park in the lot at Scrantom St. and Conkey Ave. and follow the signs.

Every Thursday Night, 7 to 9:30 PM – Microcontrollers & Robotics Meetup

A ham bench is set up with a 2 meter FM radio and a laptop with WebSDR. Waiting for nicer weather to install outside antennas for the Heathkit HW101 transceiver and Kenwood all mode 2 meter transceiver. Donations of ham equipment accepted.

For more information visit Rochestermakerspace.org

ASTRONOMY SECTION ROCHESTER ACADEMY OF SCIENCE

For more information visit <http://www.rocheasterastronomy.org/>

THE AMATEUR'S CODE

Originally written by Paul M. Segal, W9EEA (1928)

THE RADIO AMATEUR IS:

CONSIDERATE	Never knowingly operating in such a way as to lessen the pleasure of others.
LOYAL	Offering loyalty, encouragement and support to other amateurs, local club, and the American Radio Relay League, through which Amateur Radio in the United States is represented nationally and internationally.
PROGRESSIVE	With knowledge abreast of science, a well built and efficient station and operation beyond reproach.
FRIENDLY	With slow and patient operation when requested, friendly advice and counsel to the beginner, kindly assistance, co-operation and consideration for the interests of others. These are the hallmarks of the amateur spirit.
BALANCED	Radio is an avocation, never interfering with duties owed to family, job, school or community.
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APRIL RAG DEADLINE

MARCH 15, 2018



**RARA meets at 7PM on the
first **Wednesday** of each month. Join
us at:**

**Seneca Waterways Council, BSA Headquarters
2320 Brighton Henrietta Town Line Rd
Rochester, New York 14623**

Get Directions

Rochester Area Repeater Listing

THE RARA RAG

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